



Owner's Manual
Pelican WF4/WF8 Premium Whole House
Iron and Manganese Filtration System

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Product Operation and Specifications

Specification Description	WF4	WF8
Max Flow Rate*	10 GPM	15 GPM
Minimum Working Pressure	25 PSI	
Maximum Working Pressure	80 PSI	
Maximum Vacuum	5 inch/127 mm Hg	
Operating Temperatures	36°F – 120°F	
pH Range	7 - 11	

*Minimum Rated Service Flow must be at least 6 GPM.

Important Information

- Read these instructions carefully and determine the location of all system components before beginning installation.
- Check all applicable plumbing, building, and electrical codes for installation compliance.
- Install the system on the main water supply.
- Systems that contain electronic components cannot be installed outside in uncovered areas.

WARNING:

If this or any other system is installed in a metal (conductive) plumbing system, i.e. copper or galvanized metal, the plastic components of the system will interrupt the continuity of the plumbing system. As a result any errant electricity from improperly grounded appliances downstream or potential galvanic activity in the plumbing system can no longer ground through contiguous metal plumbing. Some homes may have been built in accordance with building codes, which actually encouraged the grounding of electrical appliances through the plumbing system. Consequently, the installation of a bypass consisting of the same material as the existing plumbing, or a grounded "jumper wire" bridging the equipment and re-establishing the contiguous conductive nature of the plumbing system must be installed prior to your systems use.

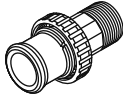
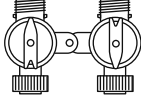
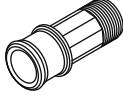

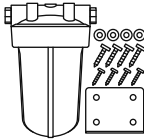
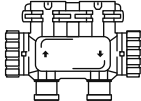






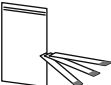
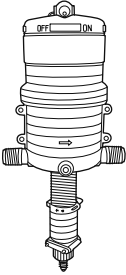

CAUTION:

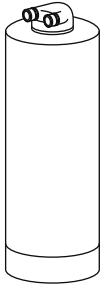
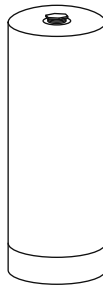
When adding a filtration/softening system to homes/buildings supplied by well water, the system should be installed following the pressure tank. **DO NOT USE this system for pneumatic or hydro pneumatic applications. If you are using a booster pump, then install this system following the booster pump.** If you have questions, please call customer service.

Complete Parts List

Note: Pelican supplies the parts below to accommodate a variety of water supply lines.

Table 1: Parts List

Part	Description	Qty.	Part	Description	Qty.
	1" Plastic Male NPT Assembly: V3007-04 WS1 Fitting 1" Plastic Male NPT Assembly (2): O-Rings (2), Split Rings (2), and Connectors (2)	1		Bypass Valve: In/Out Bypass Valve with Red Arrow Handles	1
	1" PVC Tail Adaptor for Electronic Head Bypass	2		Hose Bib Assembly	1
	Pre-Filter System: PP5 Big Blue Pre-Filter Housing, Mounting Bracket, Phillips Head Screws (4), Bolt Head Screws (4), and Washers (4)	1		Bypass Valve for Electronic Head	1
	Sediment Filter: PC40-1 5 Micron Poly-Spun Sediment Filter	1		Pre-Filter Wrench	1
	Electronic Head	1		Solution Tank	1
	PVC Tubing Drain Line (50 ft.)	1		Chemical Injector Pump Tubing	1
	Chlorine Test Strips	1		Chemical Injector Pump	1
	Non-Abrasive Auto Wax 4 oz. Bottle	1			

Part	Description	Qty.	Part	Description	Qty.
	Pelican Whole House Water Filter	1		Pelican Whole House Iron & Manganese Filter	1

Note: Drawings are not to scale.
Additional fittings will be needed to adapt to your plumbing.

Installation Overview

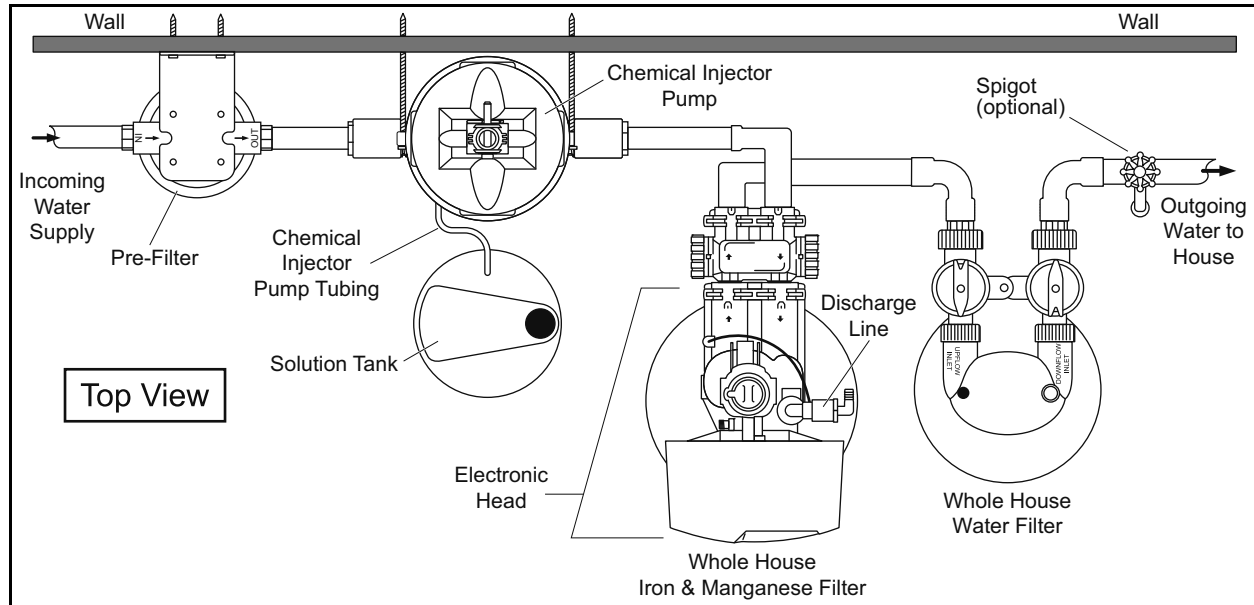


Figure 1

Pre-Installation

Bypass Valve Installation

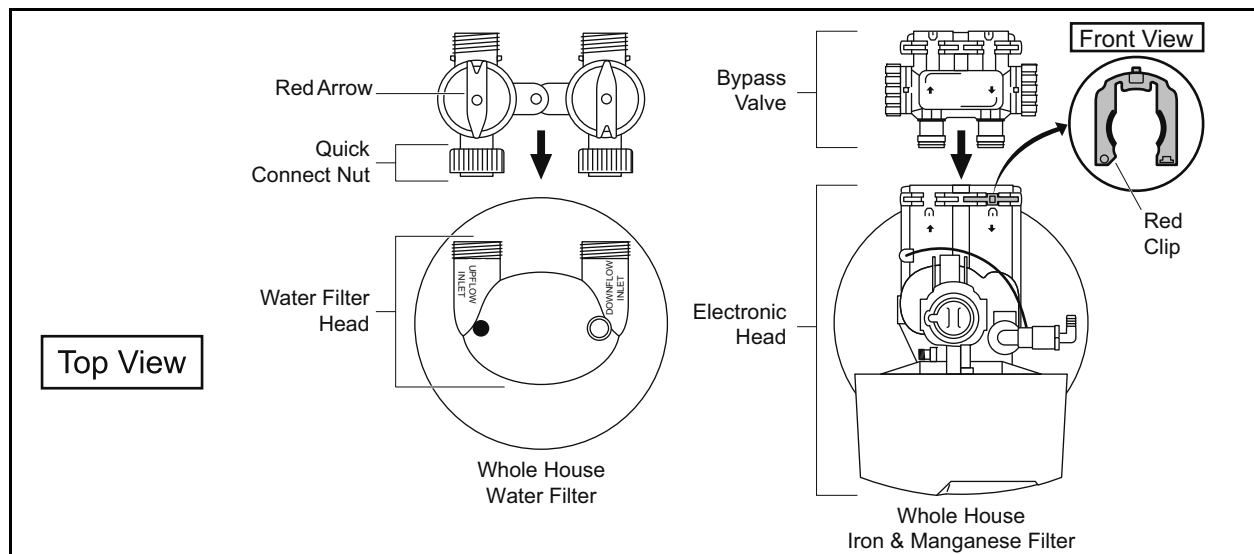


Figure 2

Whole House Water Filter - The Bypass Valve comes pre-assembled and ready to install with the O-Rings, Split Rings, and Quick Connect Nuts. Push the Bypass Valve into the head of the Pelican Whole House Water Filter with the unthreaded ends orientated towards the tank and hand-tighten the Quick Connect Nuts.

Whole House Iron & Manganese Filter - If the Red Clips are in the slots (female opening of Electronic Head) remove them. Push the male O-Ring side of the Bypass Valve into the female opening of the Electronic Head. Push the Red Clips back into the slots to tighten.



Notice:

The Bypass Valve on the Electronic Head can be set to Bypass or Service by turning the knobs on the side of the valve. If the holes are up and down then the tank is in the Bypass Mode. If the holes are side to side then the tank is in the Service Mode. Do not remove the red clips from the Bypass Valve after connecting to main water supply.

Note: The Whole House Water Filter flows in a different direction than the Iron Manganese Filter. The Red Arrows on the Whole House FilterBypass may be pointing in a different direction than shown in Figure 2. If this is the case, remove the Red Arrows by pulling them straight up. Turn them around and reposition correctly onto the Bypass Valve so they are positioned as shown in Figure 2.

Carbon Tank Soak

!!IMPORTANT!

Your system will not be ready for use for a minimum of 48 hours while the Carbon Soak process takes place. Please plan your installation accordingly.



Notice:

Water will flow out of the downflow inlet side of the Bypass Valve during this process. Be sure you perform this series of steps in a location suitable for water flow.

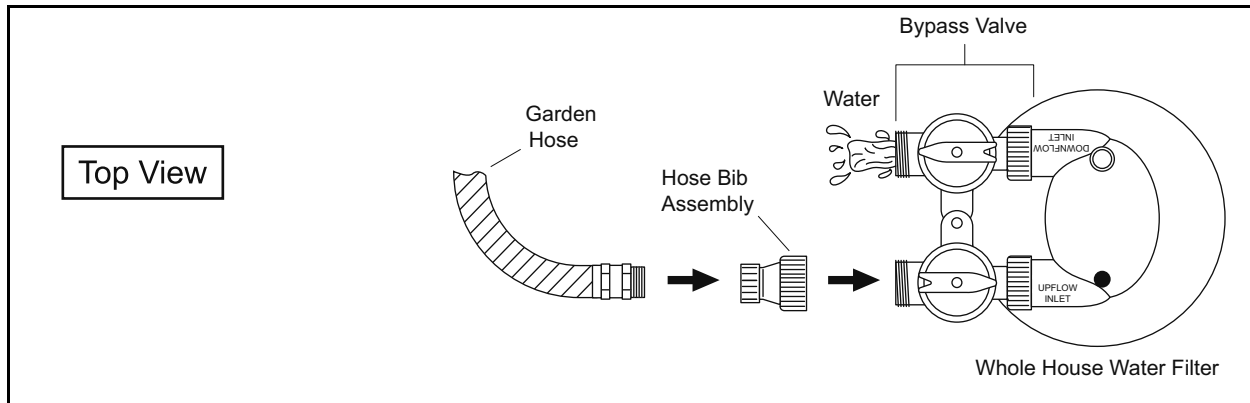


Figure 3

1. Attach a garden hose to the Hose Bib Assembly
2. Connect the Hose Bib Assembly to the upflow inlet side of the Bypass Valve and hand tighten
3. Fill the Pelican Whole House WaterFilter Tank full until water comes out of downflow inlet side of the Bypass Valve
4. Turn the water off.
5. Remove the garden hose from the Hose Bib Assembly. Do not remove the fitting.
6. Allow the carbon tank to soak for at least 48 hours prior to tank installation.

Carbon Tank Wash

!!IMPORTANT!

Do not perform the Carbon Tank Wash until the Carbon Tank Soak process is complete.



Notice:

Water will flow out of the downflow inlet side of the Bypass Valve during this process. Be sure you perform this series of steps in a location suitable for water flow.

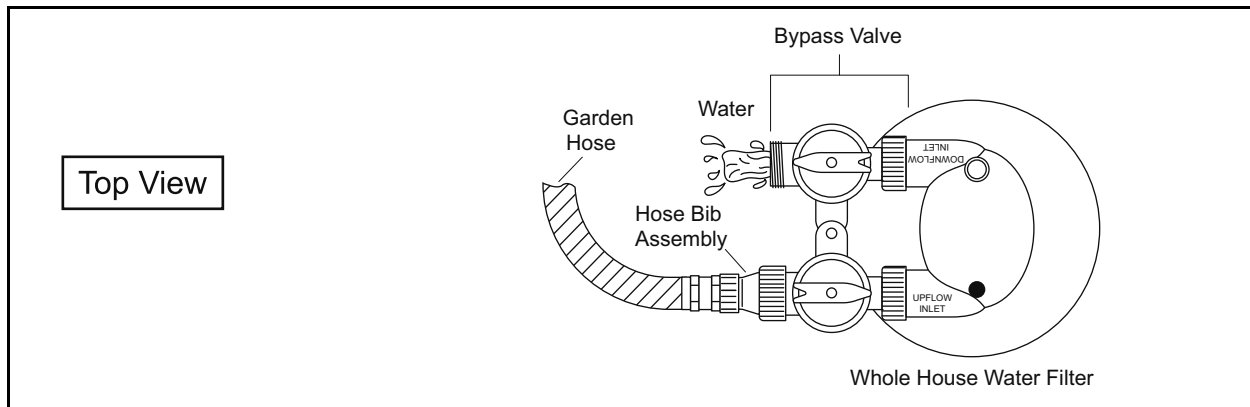


Figure 4

1. Reattach the garden hose to the Hose Bib Assembly.
2. Slowly turn on the water 1/4 turn for this entire process.
3. Run water through the upflow inlet side of the Bypass Valve for 15-30 minutes or until the water discharging from the downflow inlet side of the Bypass Valve runs clear.
4. Turn off the water.
5. Remove the Hose Bib Assembly from the upflow inlet side and attach it to the downflow inlet side of the Bypass Valve.
6. Run the water through the downflow inlet side for 1 minute or until water runs clear.
7. Turn off the water.
8. Remove the Hose Bib Assembly from the Bypass Valve and disconnect the garden hose.

Note: Please save the Hose Bib Assembly as this will be used in the future for the carbon exchange.

Installation

Pre-Filter Assembly

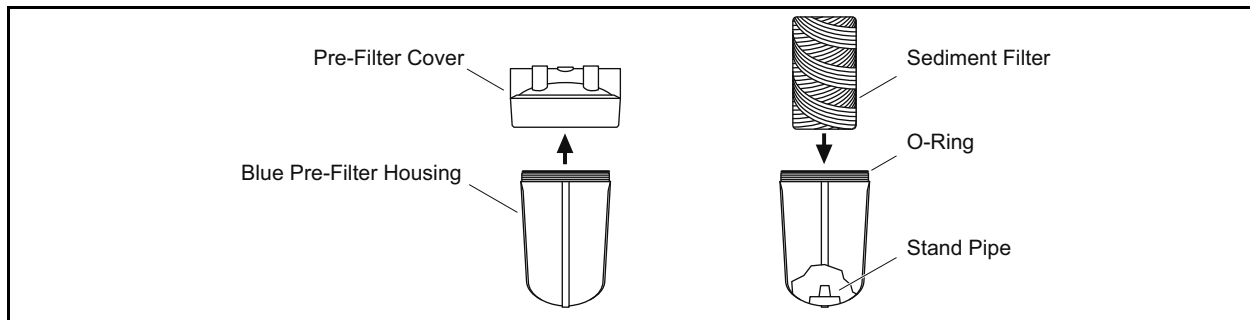


Figure 5

1. Unscrew the cover from the Blue Pre-Filter Housing.
2. Remove the plastic covering from the Sediment Filter.
3. Place the Sediment Filter onto the Stand Pipe in the Blue Pre-Filter Housing.
4. Screw the cover onto the Blue Pre-Filter Housing until hand-tight.

Pre-Filter Installation

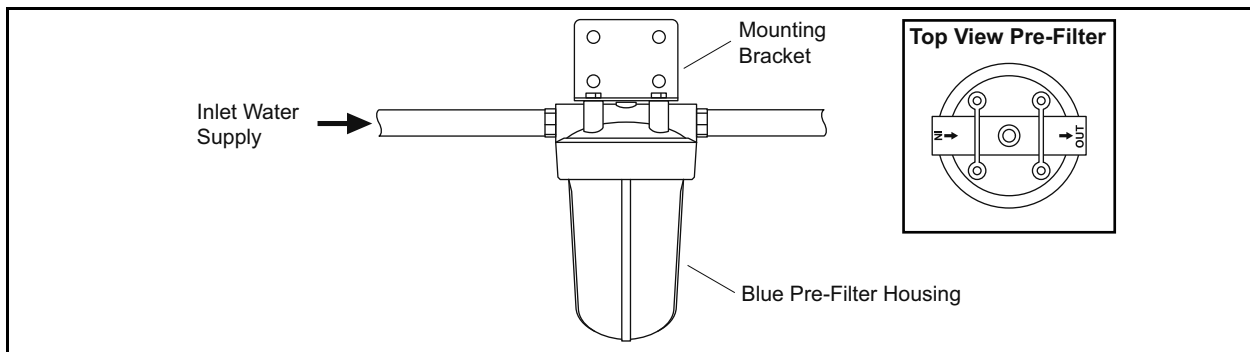


Figure 6

1. Shut off the water.
2. Attach the Mounting Bracket to the wall using the supplied Phillips Head Screws and Washers.
3. Attach the Pre-Filter System to the Mounting Bracket using the supplied Bolt Head Screws.
4. Lube the o-ring with clean silicone grease before attaching the cover onto the housing.
5. Tighten the Blue Pre-Filter Housing using the supplied Pre-Filter Wrench (counter clockwise).
6. Determine the size of your inlet water supply line. PVC Reducers may be needed to fit the 1" Pre-Filter System.



Notice:

The Pre-Filter Housing comes with a 1" threaded female inlet/outlet and will require additional fittings to adapt to your plumbing. A shut-off valve is recommended prior to the Pre-Filter System.

Chemical Injector Pump and Solution Tank Installation

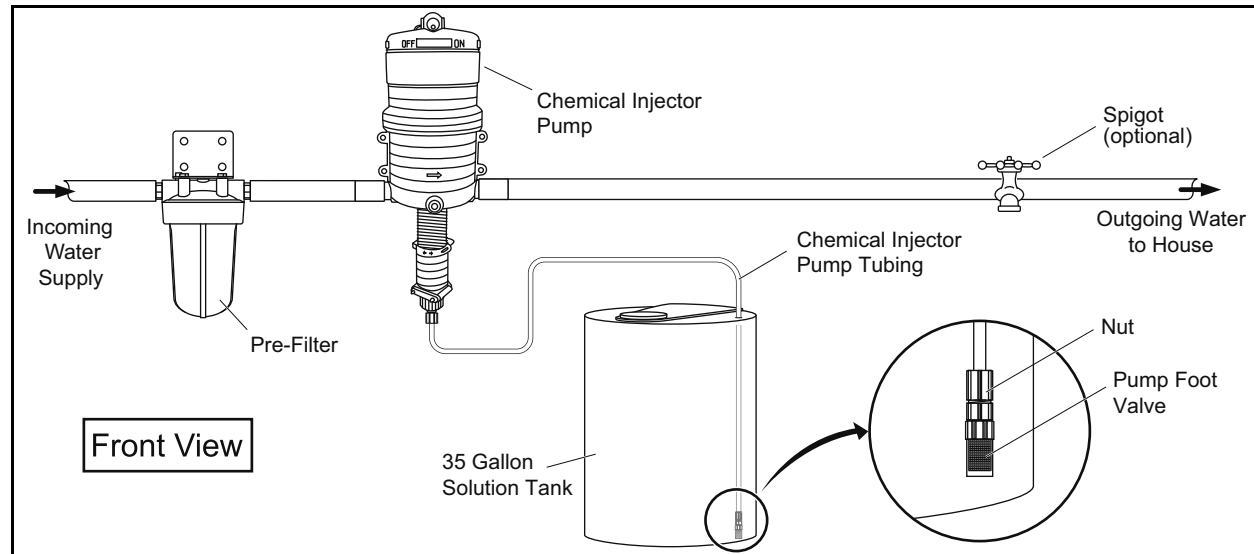


Figure 7

Chemical Injector Pump Installation

!!IMPORTANT!

Install the Chemical Injector Pump into the water supply after the Pre-Filter and before any other filtration or softening system.

1. Determine the size and material of your incoming water supply line from the Pre-Filter System.
2. Mount the Chemical Injector Pump to the wall using the provided brackets. Line up the inflow and outflow connections with the current water line.
3. Plumb the Chemical Injector Pump into your water line. The arrow on the body of the Chemical Injector Pump shows the correct water flow direction. The water should enter and exit the pump following the direction of the arrow.

Solution Tank Installation

1. Remove the black cap from the opening on the Solution Tank.
2. Drill one 3/8" hole into the top of the Solution Tank.
3. Insert the end of the Chemical Injector Pump Tubing with the pump foot valve connected, into the hole which was covered by the black cap on the top of the Solution Tank.
4. Feed and pull the other end of the tubing through the drilled opening on the top of the Solution Tank.
5. Fill the Solution Tank with 9 cups household bleach and 35 gallons of fresh bottled water. Replace the cap.
6. Determine the length of Chemical Injector Pump Tubing required to reach the bottom connection point of the Chemical Injector Pump and then cut the Chemical Injector Pump Tubing to the appropriate length.
7. Connect the Chemical Injector Pump Tubing to the suction valve on the Chemical Injector Pump.

!!IMPORTANT!

Ensure the Chemical Injector Pump Tubing is free of kinks.

!!IMPORTANT!

Ensure Solution Tank is not sitting directly on a concrete floor.

Iron and Manganese Tank Installation

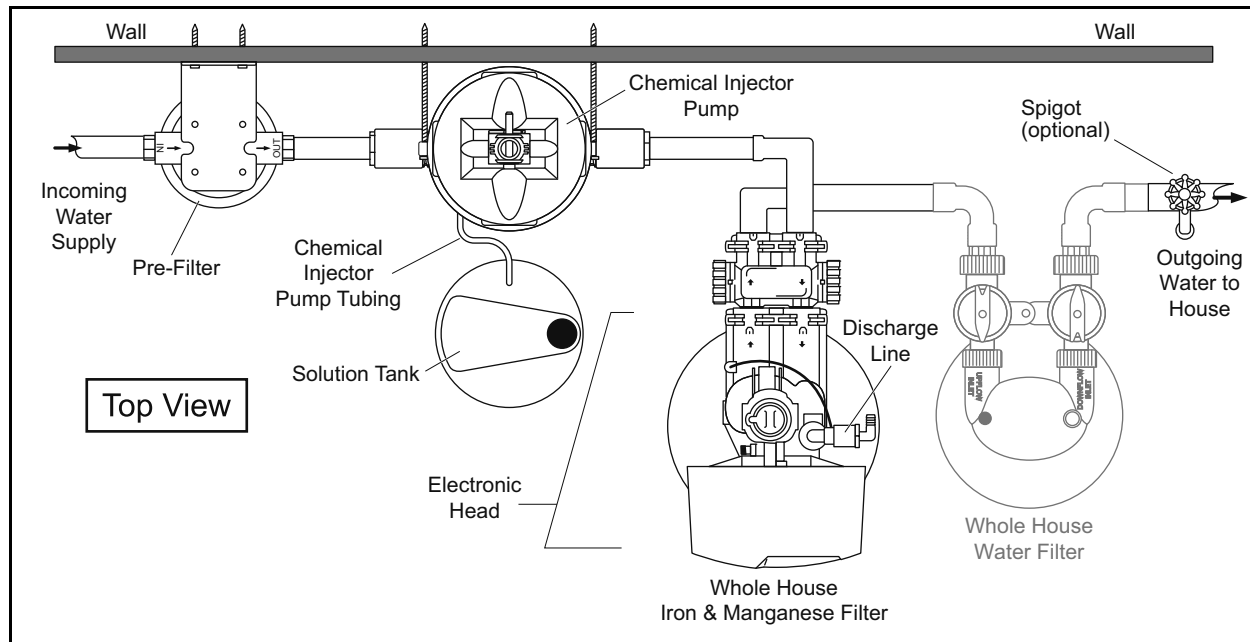


Figure 8

 **Notice:**

Follow the raised black arrows on the head of the Whole House Iron & Manganese tank.

1. Level the Pelican Whole House Iron & Manganese Filter.

 **Notice:**

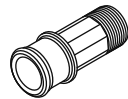
If the tank is not level, lift the tank straight up 6 inches and tap it on the ground until the tank stands vertical. The bottom of the tank is round and the boot allows the tank to stand upright.

2. Determine the size and material of your incoming water supply line from the In-Line Injection Port and choose the appropriate fittings required to connect it to the Bypass Valve.

 **CAUTION:**

Do not over-tighten any of the fittings during installation.

Table 2: Bypass Valve Fittings

Part	Description	Qty.
	1" PVC Tail Adaptor for Electronic Head Bypass	2

Note: The fitting above is designed with a 1/4" give to allow for proper pipe alignment. It will not leak and is intended to have some flexibility.

3. Remove the gray cap from the top of the Whole House Iron & Manganese tank.
4. Screw the Electronic Head onto the tank hand-tight.

5. Install the fittings onto the inlet and outlet, following the arrows on the Bypass Valve and head.
6. Connect the incoming water supply to the fitting on the inlet side of the Bypass Valve.
7. Connect the outgoing water supply to the outlet side of the Bypass Valve.
8. Firmly press one end of the discharge PVC Tubing Drain Line onto the barbed nose, and secure the other end of the line to a drain.

Whole House Water Filter Tank Installation

1. Level the Pelican Whole House Water Filter.



Notice:

If the tank is not level, lift the tank straight up 6 inches and tap it on the ground until the tank stands vertical. The bottom of the tank is round and the boot allows the tank to stand upright.

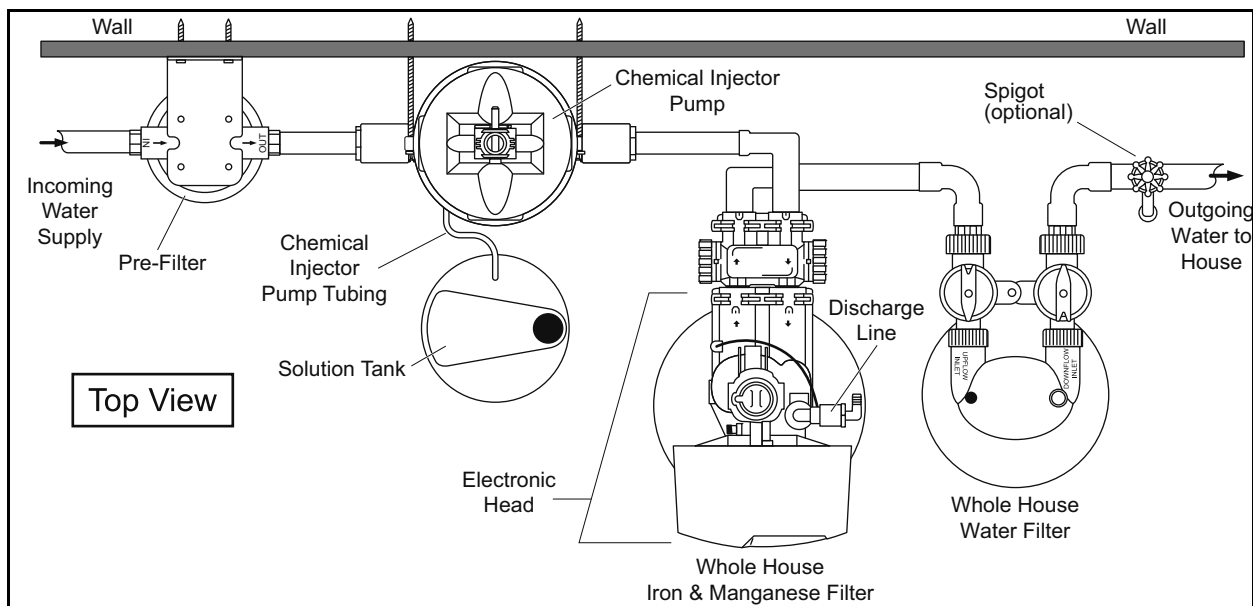


Figure 9

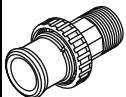
2. Determine the size and material of your incoming water supply line from the Whole House Iron & Manganese Filter and choose the appropriate plumbing required to adapt to the 1" Male NPT Assembly.

CAUTION:

Do not over-tighten any of the fittings during installation.

Table 3: Bypass Valve Fittings

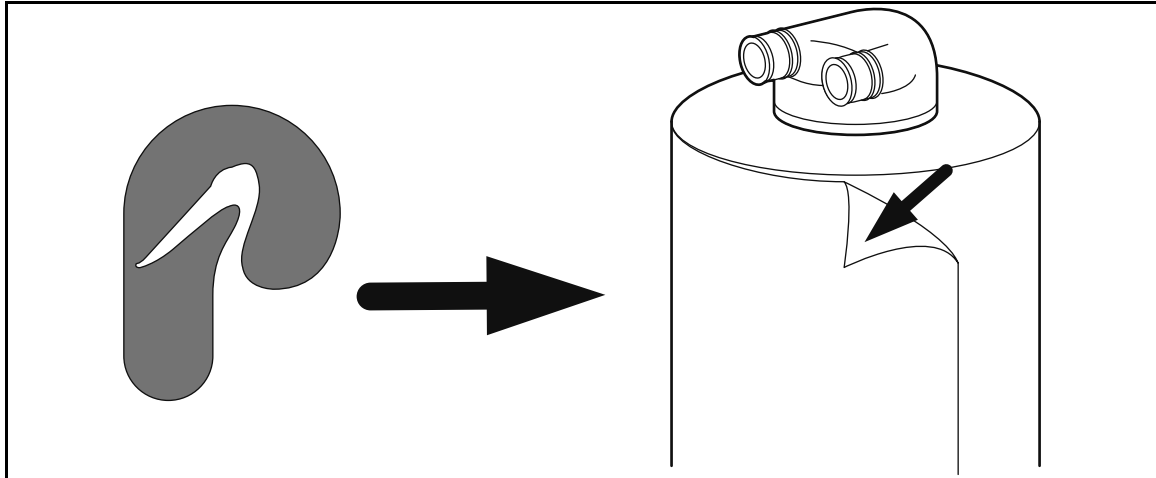
Note: The fitting below is designed with a 1/4" give to allow for proper pipe alignment. It will not leak and is intended to have some flexibility.

Part	Description	Qty.
	1" Plastic Male NPT Assembly: V3007-04 WS1 Fitting 1" Plastic Male NPT Assembly (2): O-Rings (2), Split Rings (2), and Connectors (2)	1 bag

3. Install the fitting onto the upflow and downflow inlet sides of the Bypass Valve. Follow the diagram supplied with the fitting.
4. Connect the incoming water supply from the Pelican Whole House Iron & Manganese Filter to the fitting on the upflow inlet side of the Bypass Valve.
5. Connect the outgoing water supply to the downflow inlet side of the Bypass Valve.

Complete the Installation

1. Turn on the main water supply.
2. Check for leaks.
3. Peel off the protective plastic wrap from the stainless steel tank jackets.
4. Add the Pelican logo sticker in the desired location on the tank.



5. Wax stainless steel tank jacket(s) with wax provided or any other non-abrasive auto wax a minimum of 1-2 times per year or as needed based on the installed environment.

Programming the Electronic Head

Note: Power Source - For safety reasons the outlet must be protected by a Ground Fault Circuit Interrupter (GFCI).

Note: These settings are specific to this system. Do not make changes to the settings unless instructed by customer service. All settings have to be set by first setting the clock to 12:01 PM. To restart programming, you must start over at step 1. Do not go to a previous step, you must start over at step 1.

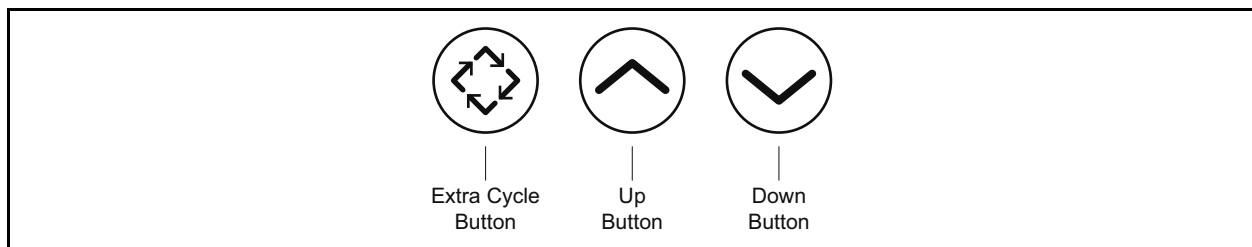


Figure 10

Step 1: Setting the Valve

1. Press and hold the UP or DOWN button to change the clock to 12:01 PM.
2. Press the EXTRA CYCLE button once.
3. Press and hold the UP and DOWN buttons together, until DF is displayed in the left corner. Scroll using the UP and DOWN arrows until "GAL" is selected. Press EXTRA CYCLE.

4. Follow the steps in the table below to finish setting the valve. When each setting is displayed, use the UP and DOWN buttons to scroll to the appropriate data setting displayed in the table. Press EXTRA CYCLE to select the data setting and go to the next setting.

Table 4: Setting the Valve

Parameter Display (Left Corner)	Data Display Set To
VT (Valve Type)	Fltr
CT (Control Type)	tc
DO (Day Override)	3
RT (Regeneration Time)	2:00
BW (Backwash)	10
RR (Rapid Rinse)	10

Step 2: Setting the Time

1. Press and hold down the UP button to change the clock.
2. Press the EXTRA CYCLE button when the time is set. The water valve displayed will stop flashing when the time is set.

Iron and Manganese Tank Regen

!!IMPORTANT!

You will not be able to use water in the house for approximately 25 minutes during the Regen process.

1. Press and hold the EXTRA CYCLE button for 3 seconds.

Note: Gears will make noise and water will start to flow.

2. Allow the system to EXTRA CYCLE for 25 minutes.

Your manual regen cycle is complete and the tank is ready for use.

Note: The days between regen may vary based on flow and Iron content. If you are unsure about the days between regen please contact your Pelican dealer for further help.

Testing Chlorine Levels in Water

1. Put the carbon tank in bypass.
2. Turn on the nearest cold water faucet to the system.
3. Listen and watch the pump to make sure it is pumping. The pump should pulse and not run continuously. If the water is off, the pump will stop.
4. Let the water run for 10 minutes.
5. After 10 minutes, use the chlorine test strip at the running cold water faucet to check the chlorine level.
6. The optimum chlorine level reading is 3ppm on the test strip.
 - a. If the level is lower than 3ppm chlorine, remove the black clip from the ratio adjustment slide. Turn the ratio adjustment slide 2 full revolutions in the positive direction. Replace the black clip.
 - b. If it is higher than 3ppm, remove the black clip from the ratio adjustment slide. Turn the ratio adjustment slide 2 full revolutions in the negative direction. Replace the black clip.

⚠ CAUTION:

Do not remove the silver clip from the ratio adjustment slide when the system is under pressure.

7. Continue with these steps until the system achieves a 3ppm reading on the chlorine test strip.

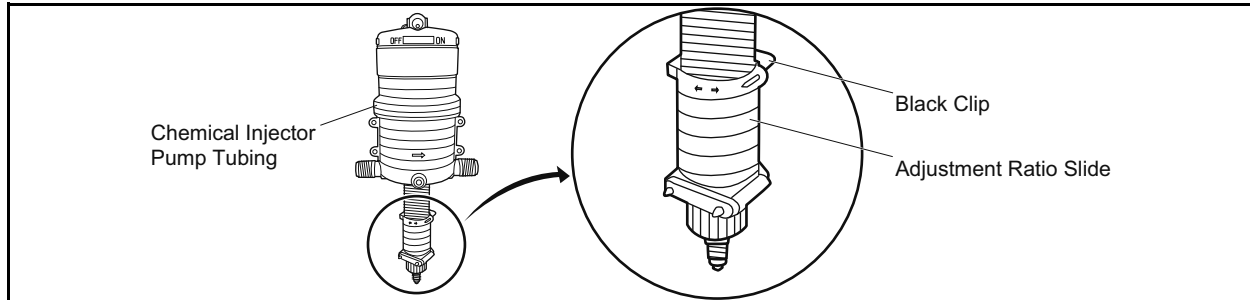


Figure 11

⚠ CAUTION:

Avoid high flow rates such as bathtub, utility sinks, hose bibs, multi-headed showers, body sprayers, or anything that is considered high flow for the first 72 hours to avoid flow restrictions caused by carbon blockage of the top basket inside the carbon tank.

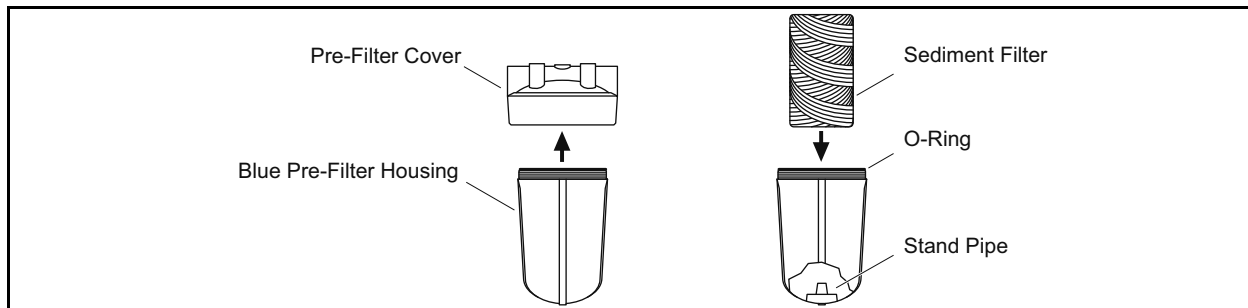
Carbon dust may be released into the water lines of the house/building during the first few days of water use after carbon tank installation. The carbon dust is harmless, but may give the water a gray appearance that should diminish within a week or 10 days depending on water use.

Care and Cleaning

Sediment Filter

It is recommended that the Sediment Filter be replaced every 6-9 months depending on the amount of sediment present in the water supply. If the system has been working properly and the pressure is slowing, it may be time to change the Sediment Filter. Check the Sediment Filter and replace if necessary.

Replacing the Sediment Filter



1. Turn off the main water supply to the Pre-Filter System and bypass all tanks.
2. Run a faucet (cold water) inside the house to relieve the pressure.
3. Unscrew the Blue Pre-Filter Housing clockwise using the supplied Pre-Filter Wrench.
4. Remove the existing Sediment Filter and discard.
5. Remove the O-Ring and wipe the groove and O-Ring clean. Lubricate the O-Ring with a coating of clean silicone grease. Replace O-Ring and press the O-Ring down into the groove with two fingers.
Note: This step is important to ensure the proper filter seal. Make sure the O-Ring is seated level in the groove. If the O-Ring appears damaged, stretched, or crimped it should be replaced at this time.
6. Place a new Sediment Filter onto the Stand Pipe in the Blue Pre-Filter Housing.
7. Screw the Blue Pre-Filter Housing onto the Pre-Filter Cover.
8. Turn on main water supply slowly to allow the Pre-Filter System to fill with water and put tanks back in service, out of bypass.
9. Check for leaks.

Chemical Injector Pump:

1. Change every six months (Kit A - part number P-SDP-A) - 2 o-rings and dosage piston. One extra Kit A is included with your original purchase.
2. Change every year (Kit C- part number P-SDP-C) - 2 o-rings, dosage piston, and shaft.

Note: Spare kits for replacement purposes can be obtained by calling your customer service representative at Pelican Water.

Solution Tank Refill — Chlorine

1. Check the level of the Solution Tank once per month. Do not let the liquid in the tank fall below $\frac{1}{4}$ full.
2. Fill the tank with 9 cups of household bleach and 35 gallons of treated water (water that has gone through your filtration system). Replace the cap.

Troubleshooting

Problem	Solution
Water leaking at the top of the tank around the head.	You may need to turn the head to tighten it. The tank head is pre-installed hand-tight, do not overtighten the head (just turn it snug).
The tank leans to one side or is not level.	If the tank is not level, lift the tank straight up 6 inches and tap it on the ground until the tank stands vertical. The bottom of the tank is round and the boot allows the tank to stand upright.
Water pressure is slowing.	It is recommended that the Sediment Filter be replaced every 6-9 months depending on the amount of sediment present in the water supply. If the system has been working properly and the pressure is slowing, it may be time to change the Sediment Filter. Check the Sediment Filter and replace if necessary.
Iron appears in the water.	Adjust settings on Chemical Injector Pump by removing black clip on the adjustment ratio slide and turning the adjustment ratio slide 2 full revolutions in the positive direction. See graphic on page 18 to locate adjustment ratio slide. If problem persists, increase backwash frequency by one day.
Water appears grey or cloudy.	Water may appear grey or cloudy for the first seven to ten days after installation due to extra carbon dust.
Water pressure is slowing immediately after installation.	High flow rates such as bathtubs, utility sinks, hose bibs, multi-headed showers, body sprayers, or anything that is considered high flow for the first 72 hours should be avoided. If you suspect a carbon blockage of the top basket due to a high-flow situation within the first 72 hours of installation, turn off any running water for at least 10 minutes. This will clear the blockage and you can resume using water at low or normal flow rates.

Warranty

Pelicans Limited Lifetime Warranty

Pelican Water ("Pelican") warrants to the end user ("customer") that its tanks (13" & smaller), valves, in/out heads, bypass's, fittings, Natursoft media and housings ("Covered Items") will be free from defects in material and workmanship under normal use and service for the life of the system. No warranty is made with respect to defects or damaged due to neglect, misuse, alterations, accident, misapplication, physical damage, installation on water quality outside guidelines for system or damaged caused by fire, acts of God, or freezing.**

Pelican Superdos Professional Chemical Injector Pump Warranty

Pelican Water ("Pelican") warrants to the end user ("customer") that its Superdos Professional Chemical Injector Pump Motor (upper half of unit) will be free from defects in material and workmanship under normal use and service for a period of 1 year. The Superdos Professional Chemical Injector Pump Adjustment Ratio Side (lower half of unit) will be free from defects in material and workmanship under normal use and service for a period of 90 days. The Chemical Injector Pump tubing is not covered as part of this warranty.

Limitations and Responsibilities

Pelican's obligation to the customer under these warranties shall be limited, at its option, to replacement or repair of Covered Items by these warranties, labor is not covered. Prior to return or repair of Covered Items, the customer must obtain a return goods authorization number from Pelican and at Pelicans option, return the Covered Items freight prepaid. Any Covered Item repaired or replaced under these warranties will be returned prepaid standard freight to the original point of shipment. Expedited freight options are available at customer expense.

No warranty is made with respect to defects or damaged due to neglect, misuse, alterations, accident, misapplication, physical damage, or damaged caused by fire, acts of God, or freezing. These warranties apply only to the original registered owner so long as the owner owns the home in which the unit was originally installed. Customer must register their system with Pelican within 90 days of purchase* in order to obtain a warranty. Warranty will discontinue after the unit is removed from the location where it was originally installed. Warranty begins on the date of delivery of product to the customer. Improper maintenance of system (i.e. not replacing filters or media) on time will be considered "neglect". Installation of any system on water conditions outside of or beyond the recommended specs of any system voids any warranty.

Pelican gives this warranty to the customer in lieu of all other warranties, express or implied, including without limitation any implied warranties of merchantability or fitness for a particular purpose or treatment of certain water and hereby expressly disclaims all other such warranties. Pelican's liability hereunder shall not exceed the cost of the product. Under no circumstances will Pelican be liable for any incidental or consequential damages or for any other loss, damage or expense of any kind, including loss of use, arising in connection with the installation or use or inability to use the Covered Items or any water treatment system the Covered Items are incorporated into. These warranties are governed by the laws of the state of Florida and may change at any time without notice.

*Failure by California and Quebec residents to complete the product registration form does not diminish their warranty rights.

**For all orders placed on or after June 3rd, 2011.

Manufacturer's Performance Guarantee

The Pelican PC600 Premium Whole House Water Filter is guaranteed to perform for 600,000 gallons or (5) years whichever comes first. The Pelican PC1000 Premium Whole House Water Filter is guaranteed to perform for 1,000,000 gallons or (5) years whichever comes first. The authorized dealers shall be

responsible for the repair or replacement of defective media only, labor to replace the media is the responsibility of the purchaser.

Warranty Registration Form

Send in this Warranty Registration Form to validate your warranty or visit
www.PelicanWater.com to complete warranty registration form online.

Pelican Warranty Registration Form

Date Item(s) were Received:	Order ID#:	Model:
_____	_____	_____
Dealer Purchased From:		

Model/Serial Number:		

Name:	_____	
Address:	_____	
City:	State:	Zip:
_____	_____	_____

Send To:

Pelican Water Systems
3060 Performance Circle, Suite 2
DeLand, FL 32724
Phone: 1-(877) 842-1635

Plumber's Information (optional)

We like to recommend good plumbers throughout the USA and if you were happy with your installer please give us their information so we can pass it on as a courtesy. Thank you for your time.




Name of Plumbing Company used to install system: _____

Phone #: (_____) - _____ of the Plumbing installer

!!IMPORTANT!

Do not use where water is microbiologically unsafe or with water of unknown quality without proper disinfection before or after the filter/softener system.

Product Certifications

	<p>Pelican NaturSoft-NS3/NS6 – WQA Gold Seal tested and certified under NSF/ANSI61 for material safety and tested according to NSF/ANSI 42 for structural integrity only</p>
	<p>Clack V3007-xx Bypass Fittings – WWQA Gold Seal Certified to NSF/ANSI Standard 44 for material safety and structural integrity only</p>
	<p>U.S. Green Building Council</p>